

**Abstract**

5 The present invention relates to processes for the production of monodisperse  $\text{SiO}_2$  particles by hydrolytic polycondensation of tetraalkoxysilanes and/or organotrialkoxysilanes, in which the hydrolytic polycondensation is carried out in a medium comprising water, one or more solubilisers and one or more amines, and in which highly monodisperse, non-porous particles are obtained. The present invention likewise relates to powders obtainable by the processes, and to the use thereof.

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